BRITISH GRASSES.

M. WHARTON.

Oak Spring Garden Library

Cyperus Papyrus. L:

Bruce's Travels

E. W.

42. Spring-grass. 1.

Mt Wharton.

Anthoxanthum Odoratum

Scirpus ?

Gainford June 1902 E.W.

65. Compressed - Bog - rush. 4.

Scirpus caracinus Eng. Flora

Schoenus Compressus.

Mr. W.

67. Marsh Club-rush 1.

Eleocharis palustris. Eng. Flora Creeping Spike-Rush

Scirpus Palustris.

Mr W.

67. Bull-rush 5

Scirpus Lacustris.

67. Little-chocolate headed Club-rush. 2-3.

Scirpus Pauciflorus

Mt W.

67. Least Club, or Bull-rush . 8.

Mt. W. *Scirpus Setaceus.*

67. Round rooted bastard Cyperus-grass. 10.

Mr W.

Scirpus. Maritimus.

67. Millet-Cyperus-grass. 11.

Scirpus Sylvaticus.

Mr. Wharton.

Eriophorum polystachion.

E. W.

68 Cotton-grass. 1.

Mr. W.

Eriophorum Angustifolium.

69. Matt-grass. 1.

Nardus. Stricta.

Mt W.

74. Manured Canary-grass. 1.

Mr Wharton.

Phalaris Canariensis

74. Sea Canary-grass 2 Cock's tail grass

Phalaris Arenaria Phleum Arenarium Eng Fl.

M.t W.

76. Green Panic-grass. 1.

Panicum. Viride.

Mr W. Old Park.

77. Meadow Cats-tail-grass. 1.

Mr W.

. Phleum. Pratense.

77. Var: of Meadow Cats-tail-grass. ɪ with a

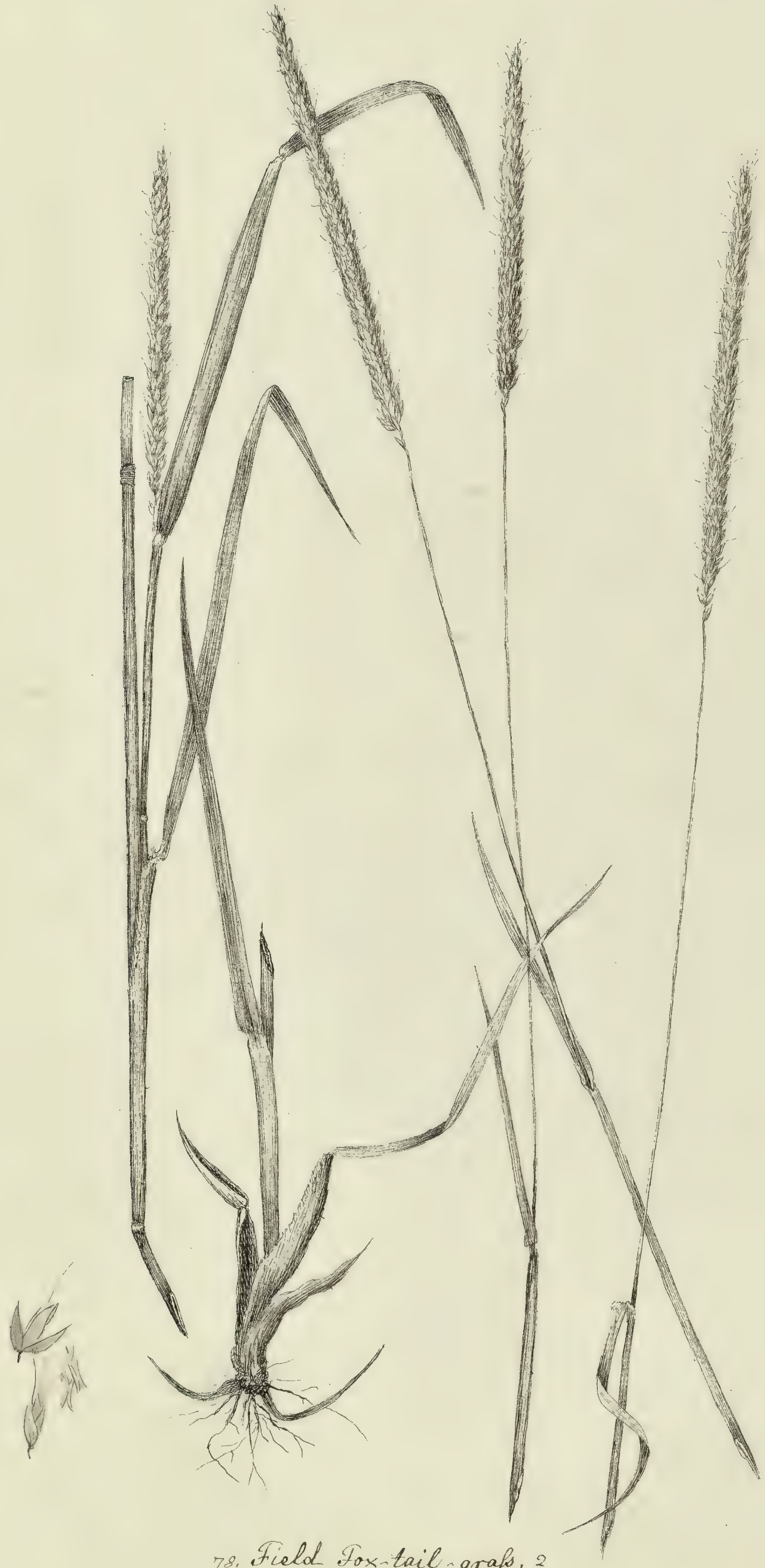
Mr. W.

78. Meadow-fox-tail-grass. 1.

M.t W.

Alopecurus Pratensis.

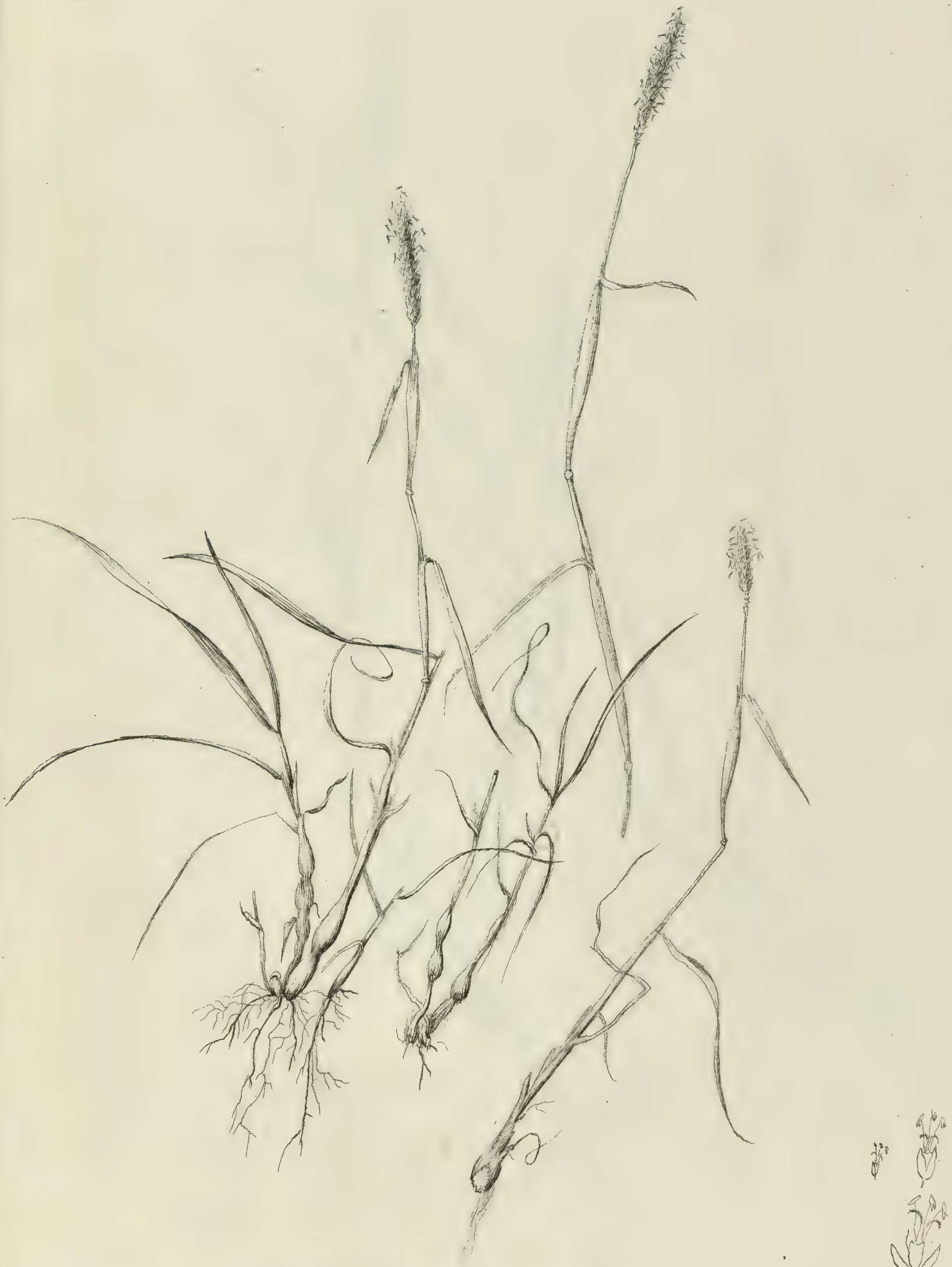
E.W. 78. Field-fox-tail-grass. Var:



78. Field Fox-tail-grass. 2

Alopecurus Agrestis.

Mr. W.



78. Bulbous fox-tail-grass.

Alopecurus Bulbosus.

L.W.

78. Float fox-tail-grass, 3.

Alopecurus. Geniculatus.

Mr W.

80. Agrostis canina. Brown bent-grass. 2

Mr W.

80. Fine Bent-grass . 3.

Mr W.

Agrostis vulgar

Agrostis. Capillaris.

Agrostis pumila.
Dwarf-bent-grass.

Agrostis vulgaris Lin. Sp. Plan.

80. Creeping Bent-grass 3.

M.r W.

Agrostis Stolonifera.

Agrostis Alba. Var. 1. Marsh bent grass.

Mt. W.

Agrostis Alba. Var: 3.

81. Crested Hair grass. 1

Aira Cristata

M.t W.

81. Purple Hair grass. 2

Aira Cærulea

Mt. del.

81, Water-hair-grass. 3

Aira Aquatica.

Mr W.

Poa Distans. Distant Meadow grass.

Mt W.

Glyceria distans — Spiked Sweet grass.

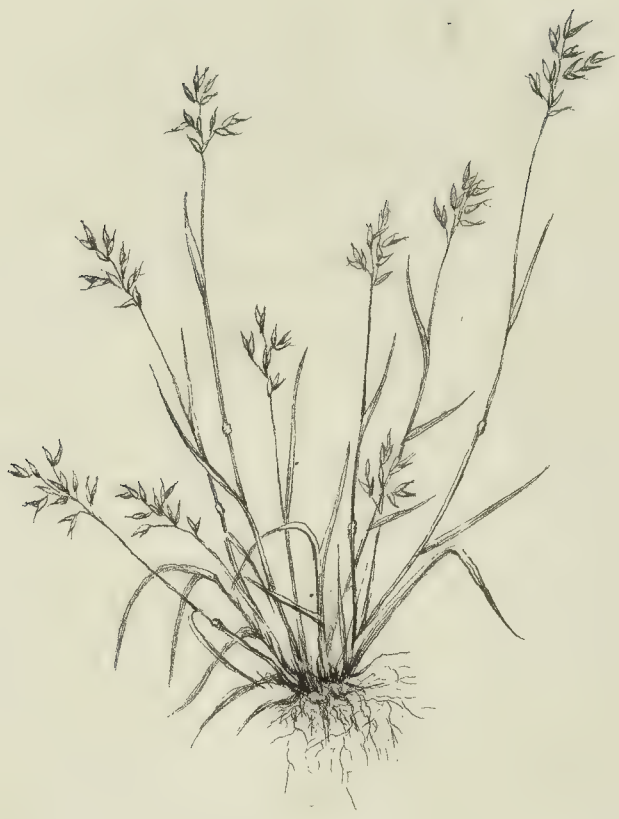
81. *Turfy-hair-grass*. 4

M.t W.

Aira Cæspitosa

Mt. W.

Aira Flexuosa. Twisted-hair-grass.



81. Early-hair-grass. 8.

Mr. W.

Aira Præcox.

81. Silver-hair-grass. 9.

Aira Caryophylea.

Mr. Wharton.

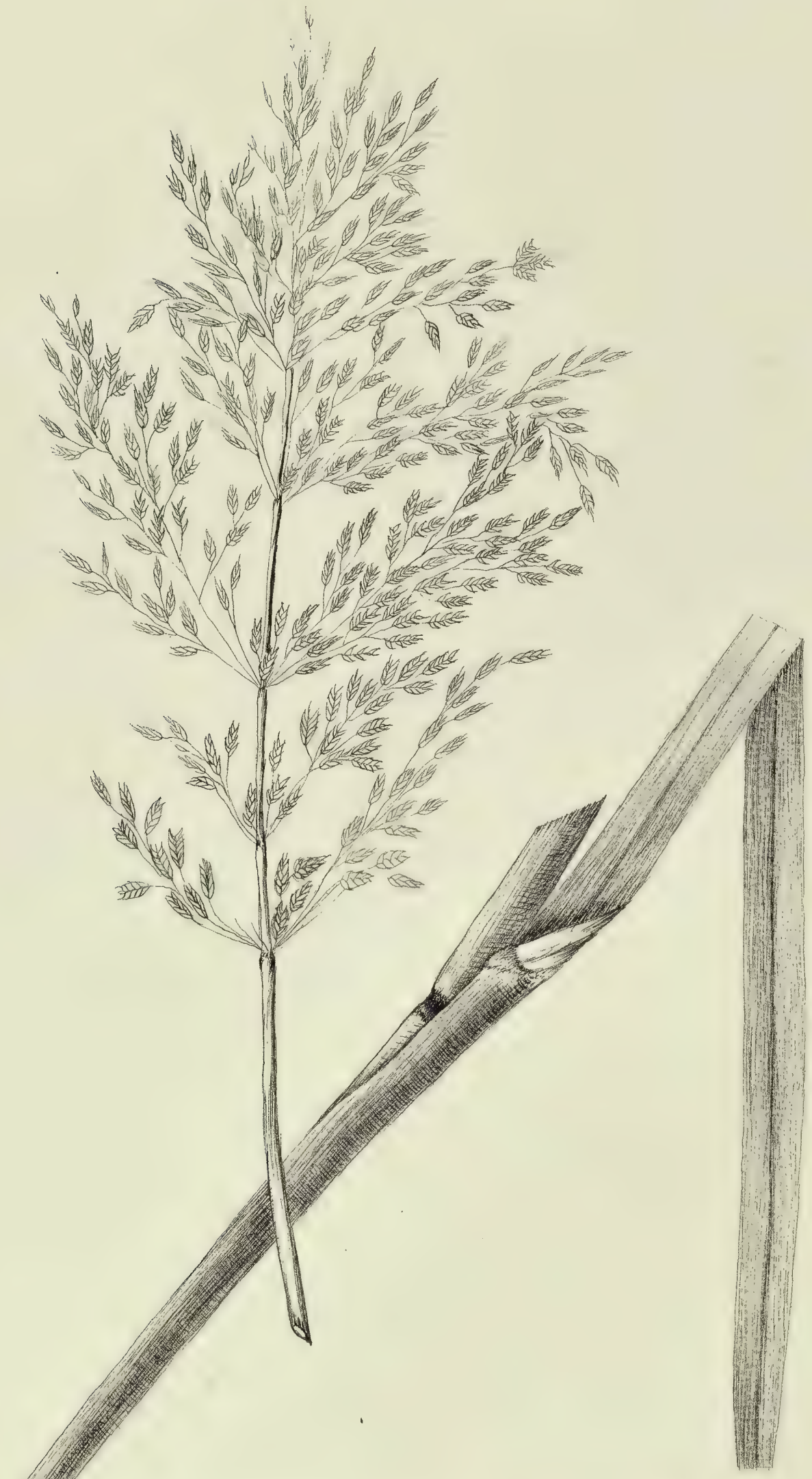
92. Melic-grafs. 1.

Mr. W.

Melica uniflora.

84. Quake-grass. 1.

Briza-Media



33. Reed meadow-grass, or great water Poa. 1.

Poa. aquatica.

MEW.

83. smooth stalked Meadow Grass.
or Great Meadow G.

Poa. pratensis

Mt. b

83. rough stalked Meadow grass.
or common meadow grass

Poa trivialis

Mt. W.

Mr W. Poa. rupestris

83. Annual Meadow-grass. 7.

Poa Annua

83. Sea-Meadow-grass. 8

Glyceria maritima. Creeping Sea meadow-grass. ♀

Poa maritima

Mr. W.

83. Hard-meadow-grass. 9

Glyceria rigida

Poa Rigida

Mr W.

83. *Spiked-meadow-grass.* 10.

Triticum loliaceum. Dwarf darnel-leaved grass. Sp. Flora

Poa loliacea.

Mr. W.

86 Rough-Cocksfoot-grass. 2.

Dactylis Glomerata.

Mr. Wharton.

88.

Mt W.

88. Hard-fescue-grafs 2.

Festuca duriuscula

88. Tall-fescue-grafs. 8

Festuca pratensis.

M.t W.

88. Barren-Fescue-grass 5.

Festuca Bromoides

M^t W.

88. Float-fescue, or Manna-grass 7.

Mr. W.

Festuca fluitans

88. Decumbent fescue-grass. 9

Festuca decumbens. (Poa decumbens. W. 3d Ed.)

Mt. W.

88. Spiked-fescue-grass 10. Narrow-leaved Fescue Grass

Mr. W.

Festuca Sylvatica

Bromus secalinus

Soft Broom grass. or field Broom-grass

Hartlepool.

Bromus-polymorphus,

Mr W.

89. Soft-Broom-grass. 1. Var.

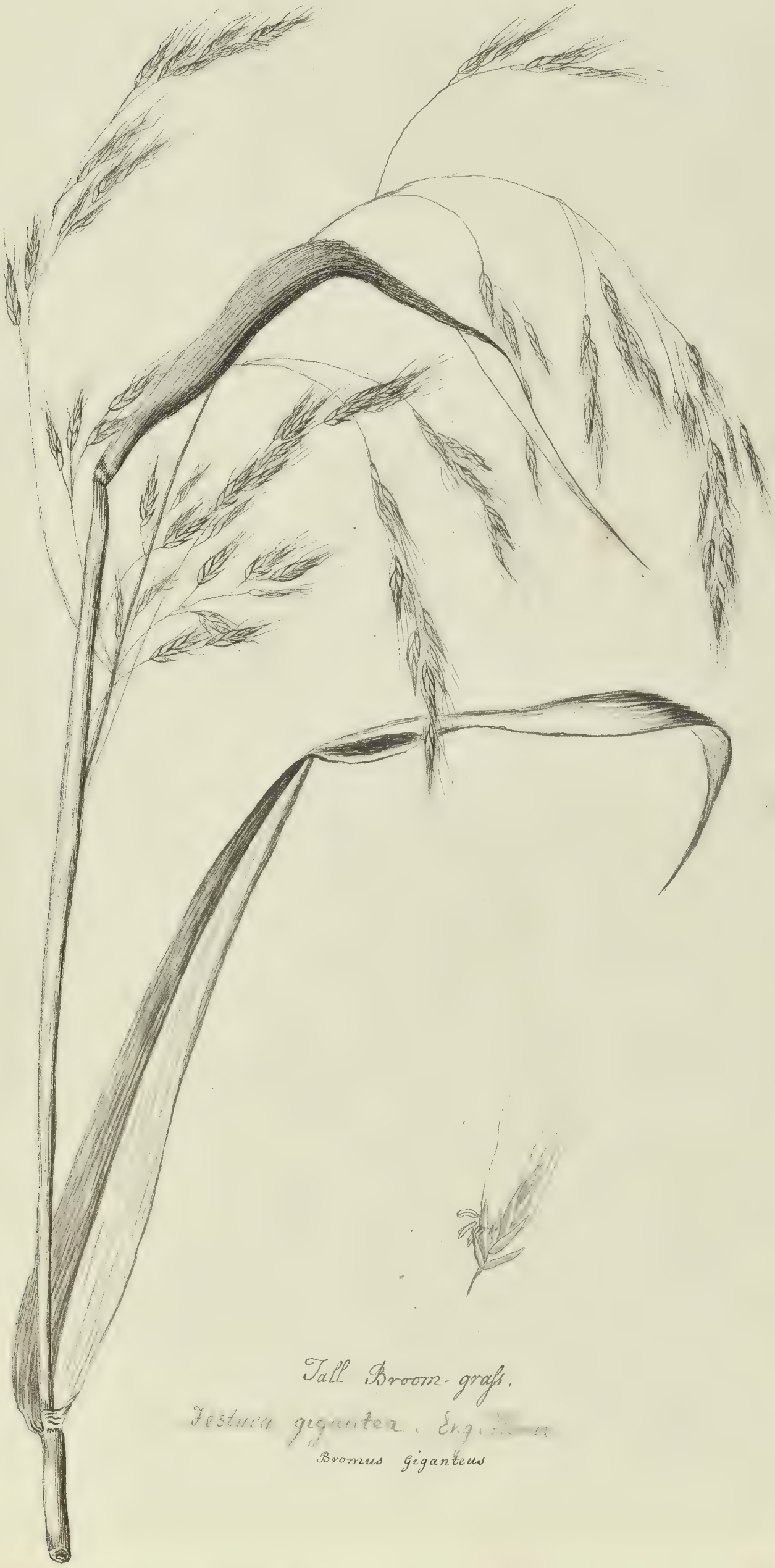
Bromus Polymorphus Mollis.

Mr. W.

99. Barren-broom-gras. 5.

Bromus Sterilis

Mr. W.



Tall Broom-grass.

Festuca gigantea. Engl.

Bromus giganteus

89. *Great-branched Broom-grass.*
or-wood-Broom-grass. 7.

Mr. W.

Bromus Asper.

Avena strigosa Scrannel Oat-grass.

m.t W.

aug.t

91. Bearded Oat-grass. 2.

Avena fatua

Mr. W.

91. Meadow Oat-grass. 3

Mt. Wharton.

Avena Pratensis

91. rough-Oat-grass 4.

Avena pubescens

Mt. W

91. Yellow-Oat-grass 5.

Avena flavescens.

Mr. W.

91. Tall, Oat-grass. 6
or Couch-grass.

Festuca Avena. Lin. — Tall Oat grass. Eng. Flora

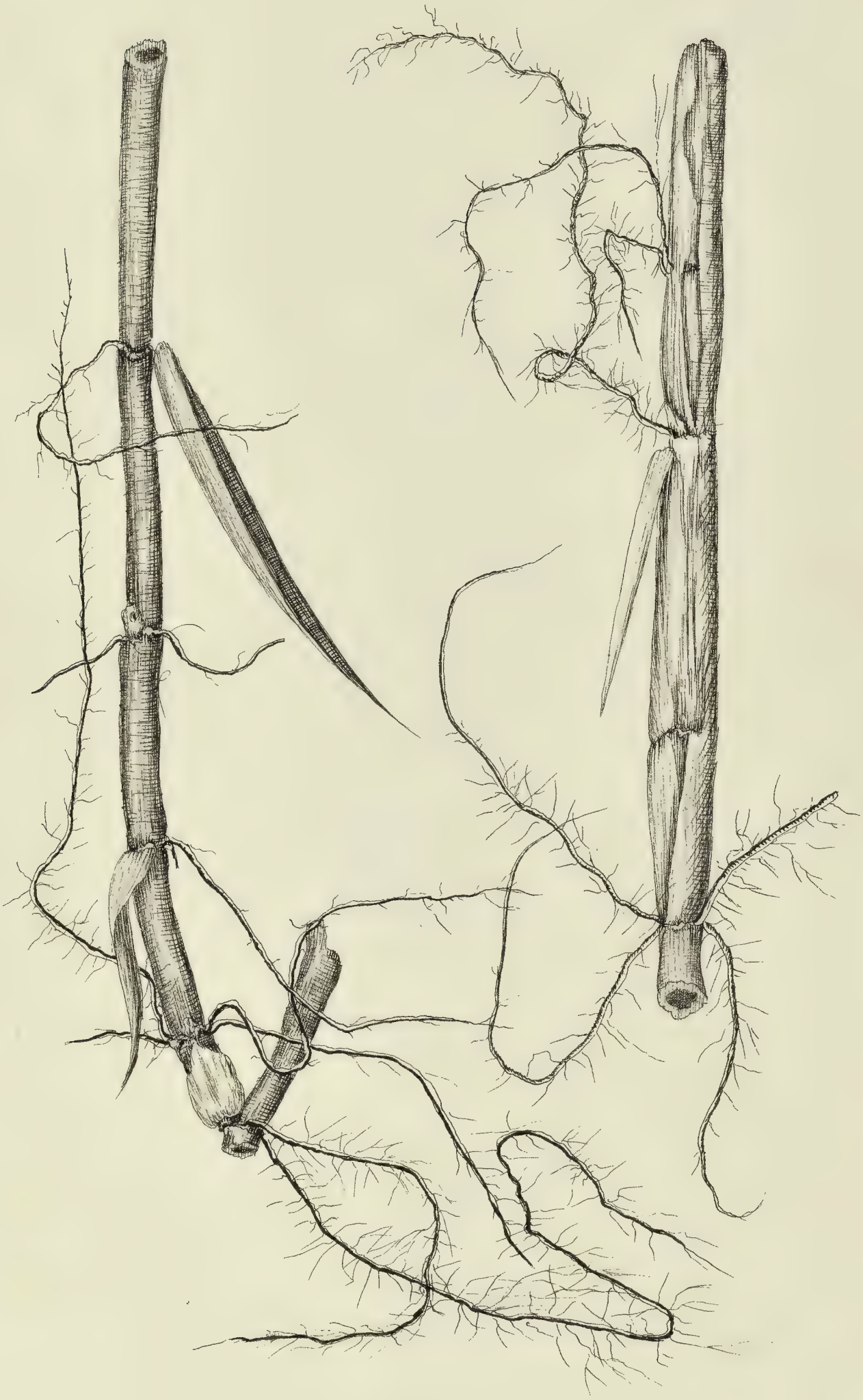
Avena Elatior

Mt. W.

93. Reed-grass. 1.

Arundo Phragmites

M.t W.



93. Root of the Reed grass 1

M.E.W.

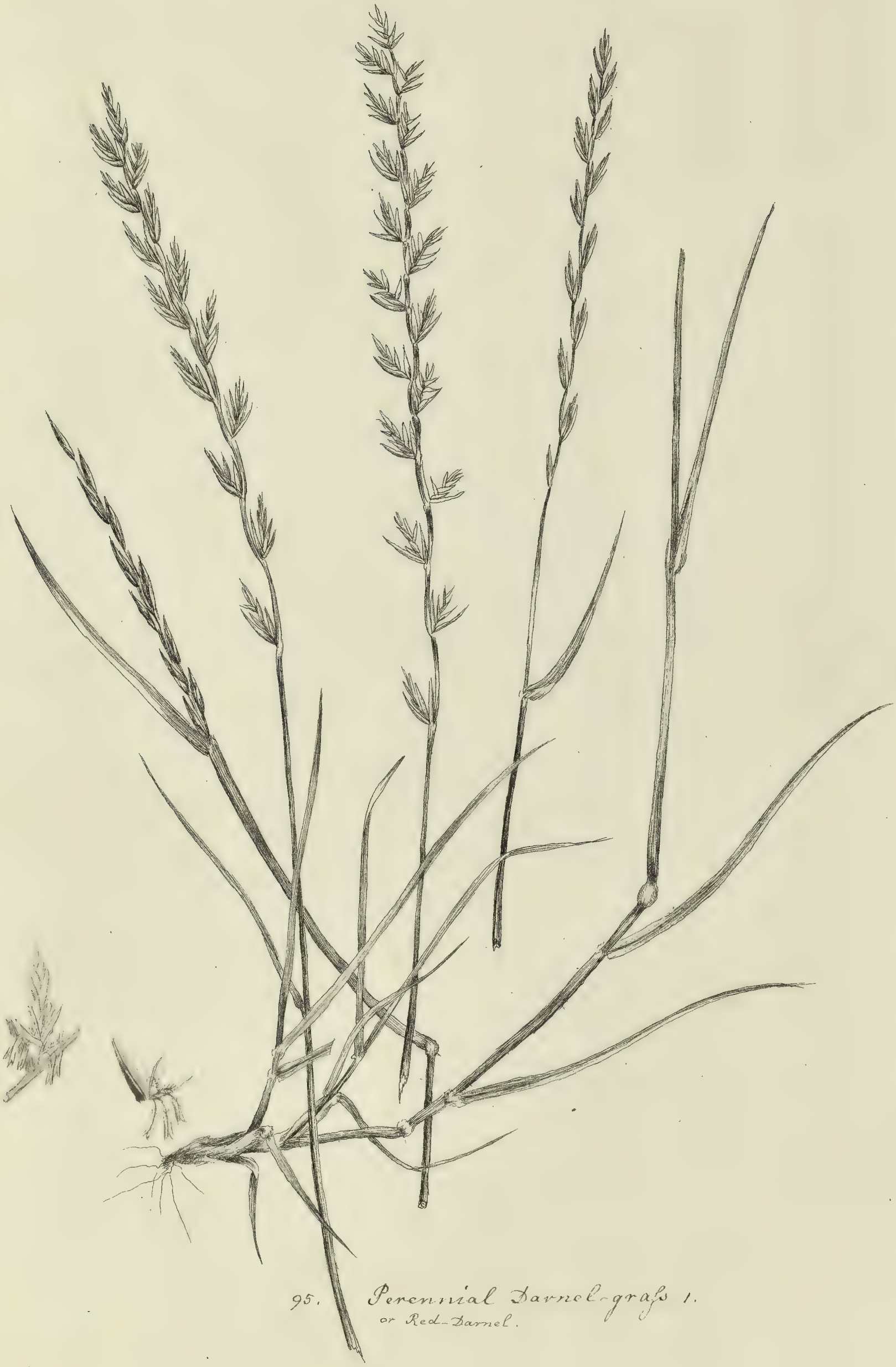
93. Sea Reed, or Mat grass. 1.

Mr. W.

Calamagrostis Arenaria. (Arundo arenaria. of L.)

Lolium perenne. var. 2.

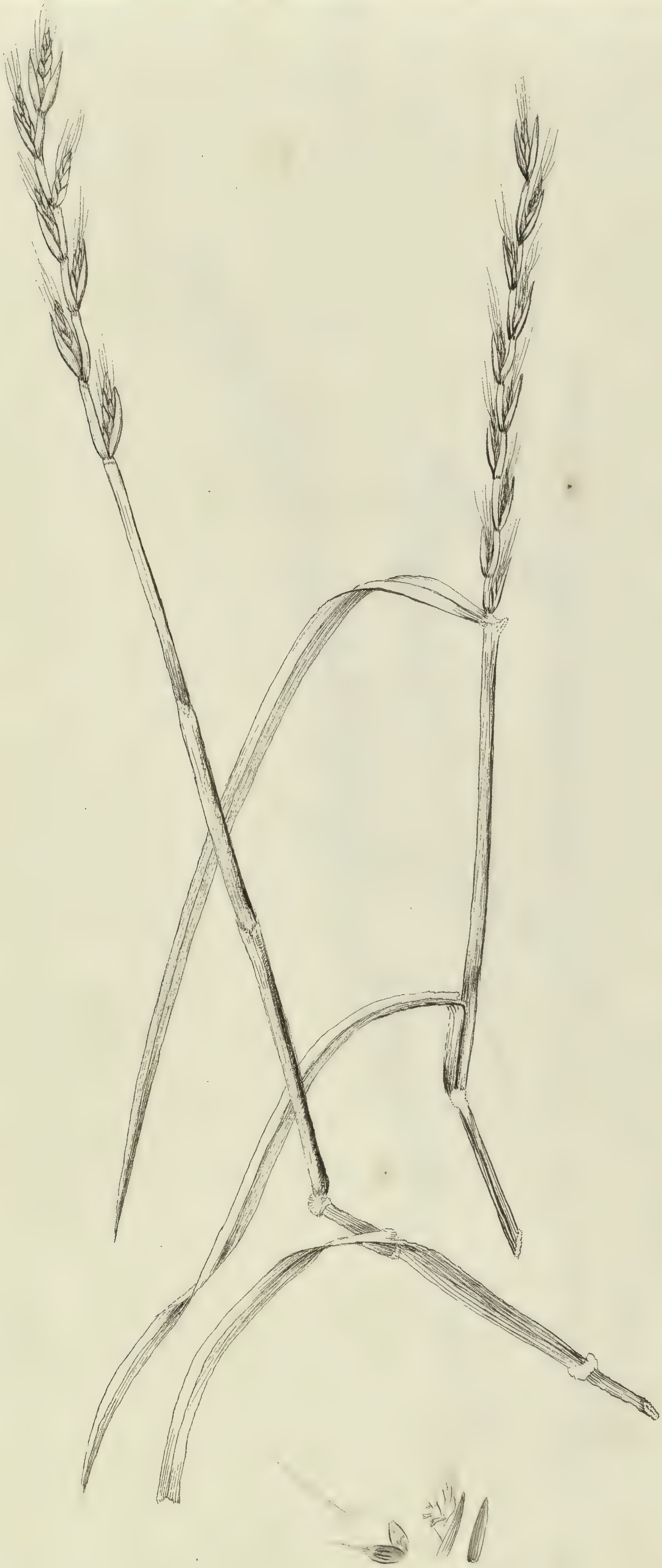
Double spiked Darnel-grass.



95. Perennial Darnel-grass 1.
or Red-Darnel.

Mr. W.

Lolium - perenne.



Lolium - temulentum . Annual Darnel-grass.

M.t D.

Lolium arvense.
White or annual Darnel-grass.

Hn W.

96. Sea Lyme-grass 1.

M.E.W.

Elymus. Arenarius.

98.

Wall Barley-grass. 1

Hordeum Murinum.

98. Meadow-barley-grass. 2

Hordeum pratense.

M.F.W.

Var. of *Triticum repens*. Short-bearded Wheat grass.

M^t W.

99. Common Wheat-grass, or Couch-grass. 1.

Mt. W.

Triticum-repens.

99. Sea-wheat-grass. 3

Triticum - maritimum

Mr. Wharton.

87. Crested-dog-tail-grass. 1

Cynosurus - Cristatus

M.E.W.

87. Blue Dog-tail-grass. 3.
or Blue-moor-grass.

M^r W.

Sesleria - cærulea

May

437. Sea-hard-rush. 1

Juncus. Acutus.

Mr. Wharton.

437, Round headed-rush. 2.

Juncus - Conglomeratus

Mr W.

437. Soft rush. 3.

Juncus. Effusus.

437. Hard kush 3.

Juncus - Inflexus.

Mr. W.

437. Moss Rush. 6.

Juncus Squarrosus.

M.E.W.

437. Jointed-leaved-water-rush. 7.

Juncus - Articulatus

Juncus Fungiformis by Host

Mr W.

Fig. 1 Juncus Bulbosus.

437. Bulbose Rush. 8.

Mr W.

Fig: 2 & 3. Juncus Uliginosus.

437. Toad-Rush. 9.

M.E.W.

Juncus - Bufonius

437. Hairy-rush. 11.

Juncus Pilosus

M.t W.

437. Great-hairy-wood Rush 12.

Juncus Sylvaticus

Mt. W.

Great-hairy-wood-rush

437. Small-hairy-field-rush.
or Pasture-Rush. 13.

Juncus Campestris

Mr. W.

Carex dioica

1046. Dioecious-carex. I.

Mt. Wharton, Old Park.

C. pulicáris
1046; Flea-carex. 4

Mt. W.

C. disticha C. intermedia – Goodenough.

1046. Soft-carex. 6.

Mt. W.

C. arenaria. (stalk too strait)

1046. Sea-carex. 7

Mt. W.

C. leporina C. Ovalis. Gooden: of Eng. Fl.

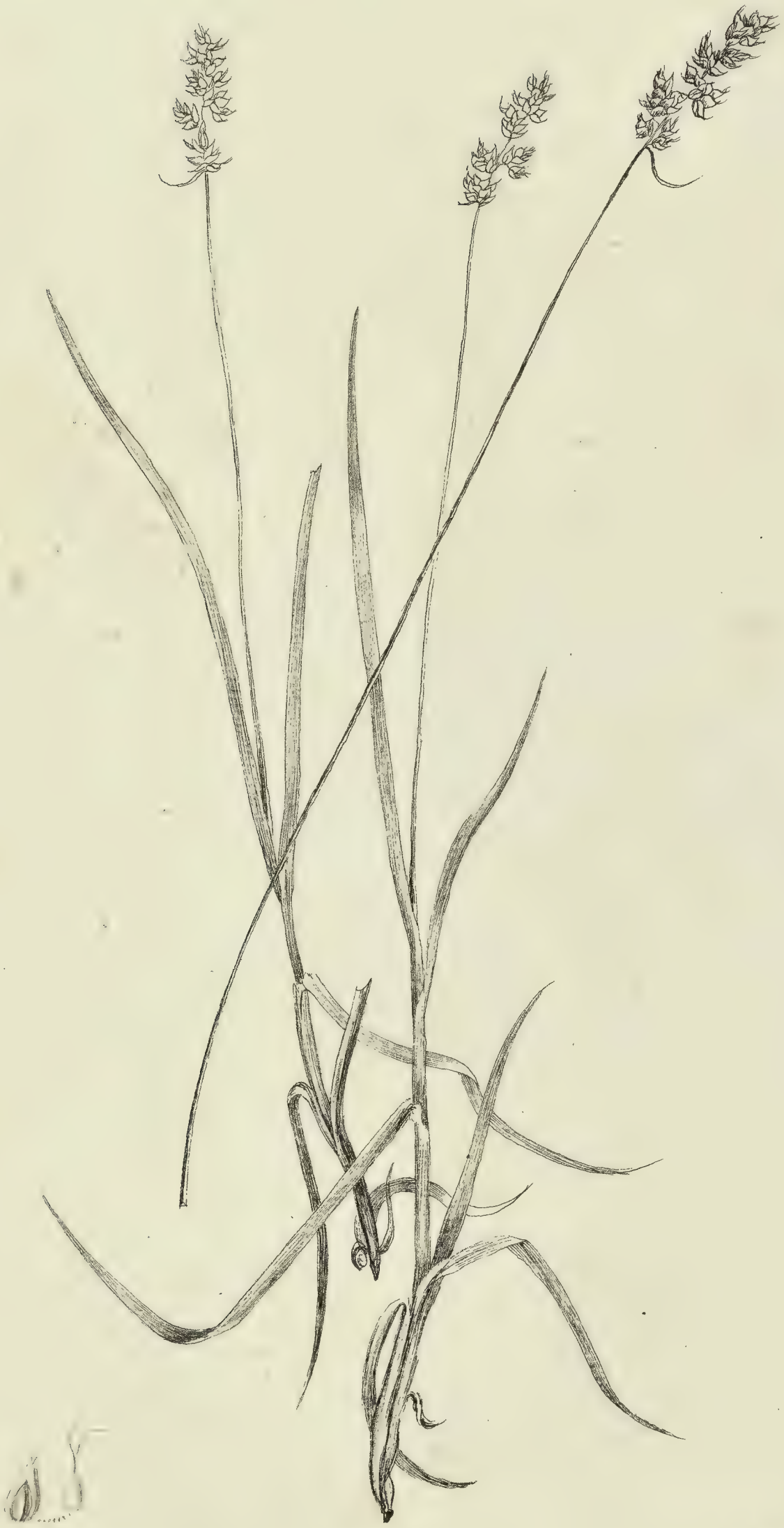
1046. Naked-carex 8

Mr W.

C. vulpina.

1046. Great-carex. 9

Mt. W.



C. spicáta · muricata of Gooden. [illegible]

1046. Spiked-carex. 10

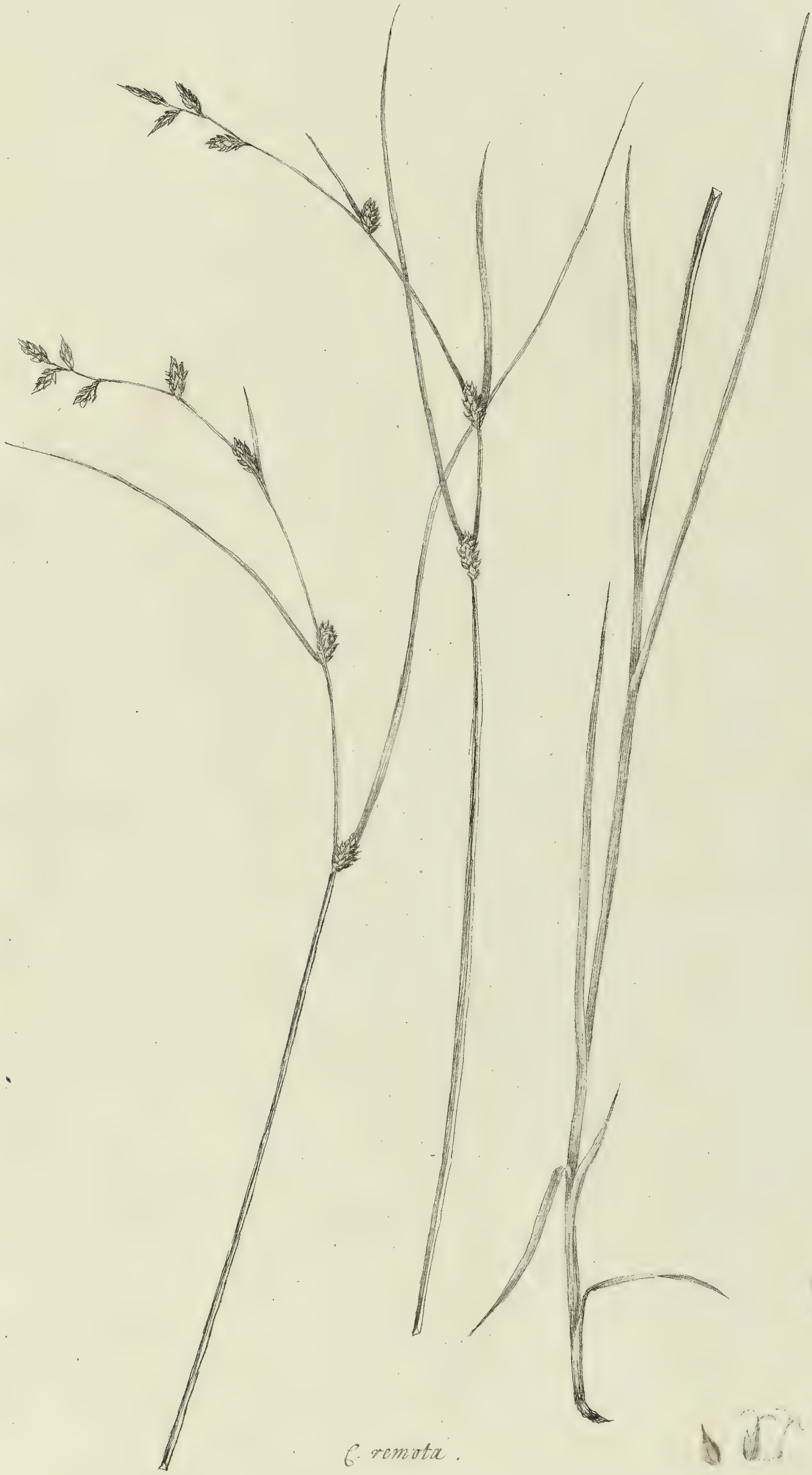
Mt. W.

C. divisa.

1046. Marsh-carex. 11

C. muricata. Stellulata of Gooden:
1046. Prickly-carex. 13

Mt W.



C. remota.

1046. Axillary-carex. 15

Mt. W.

C. flava.

1046. Yellow-carex. 16

Mrs W.

C. montana, præcox of Gooden: [illegible] Eng. Fl.

1046 Mountain-carex. 4

Int. W.

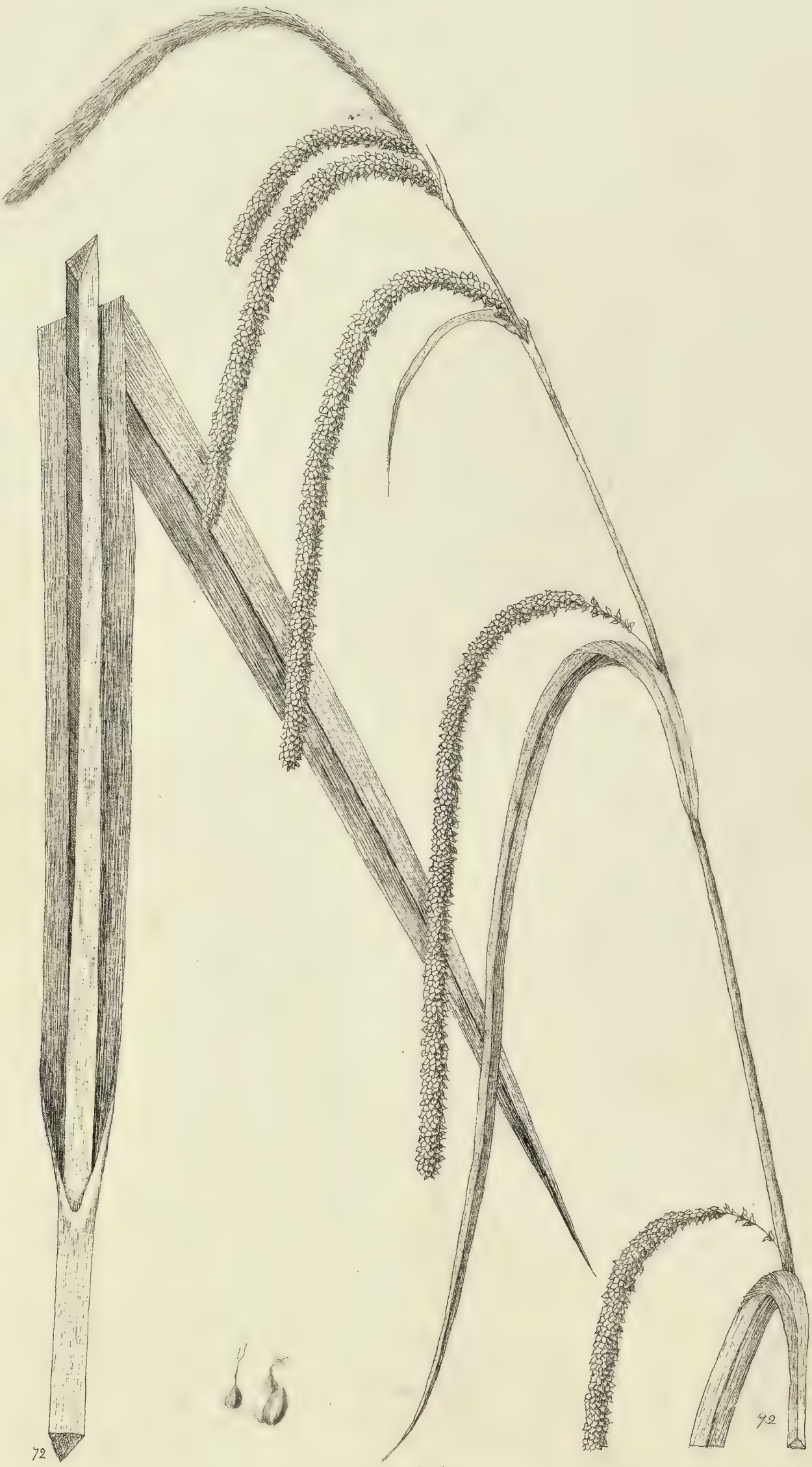
C. pilulifera

1046, Pill-bearing-carex. 18

Mt. W.

C. panicéa
1046. Pink-carex. 23.

Mr. W.



C. pendula.
1046 Great-pendulous-carex. 26

M.t W.

C. sylvatica.
1046. Wood Carex. 28

Mt. W.

C. distáns
1046. Distant or loose carex. 29

C. pallescens.
1046. Pale-carex. 24

mt. w.

1046. C. Cæspitosa of Good^en: [illegible]

Mt. W.

C. Recurva. Heath Carex.

t W.

C. Recurva. Heath Carex.

Mt. W.

Carex lævigata.

E. W.

Carex Riparia . Great Carex.

E.W.

C. acúta (of With.?) C. Paludosa of Goodenı ?

1046. Brown or sharp-vernal-carex 33

Mt. W

Carex vesicaria . Goodn. L. [illegible] Bottle Carex.
C. inflata . Huds. Light.t

E. W.

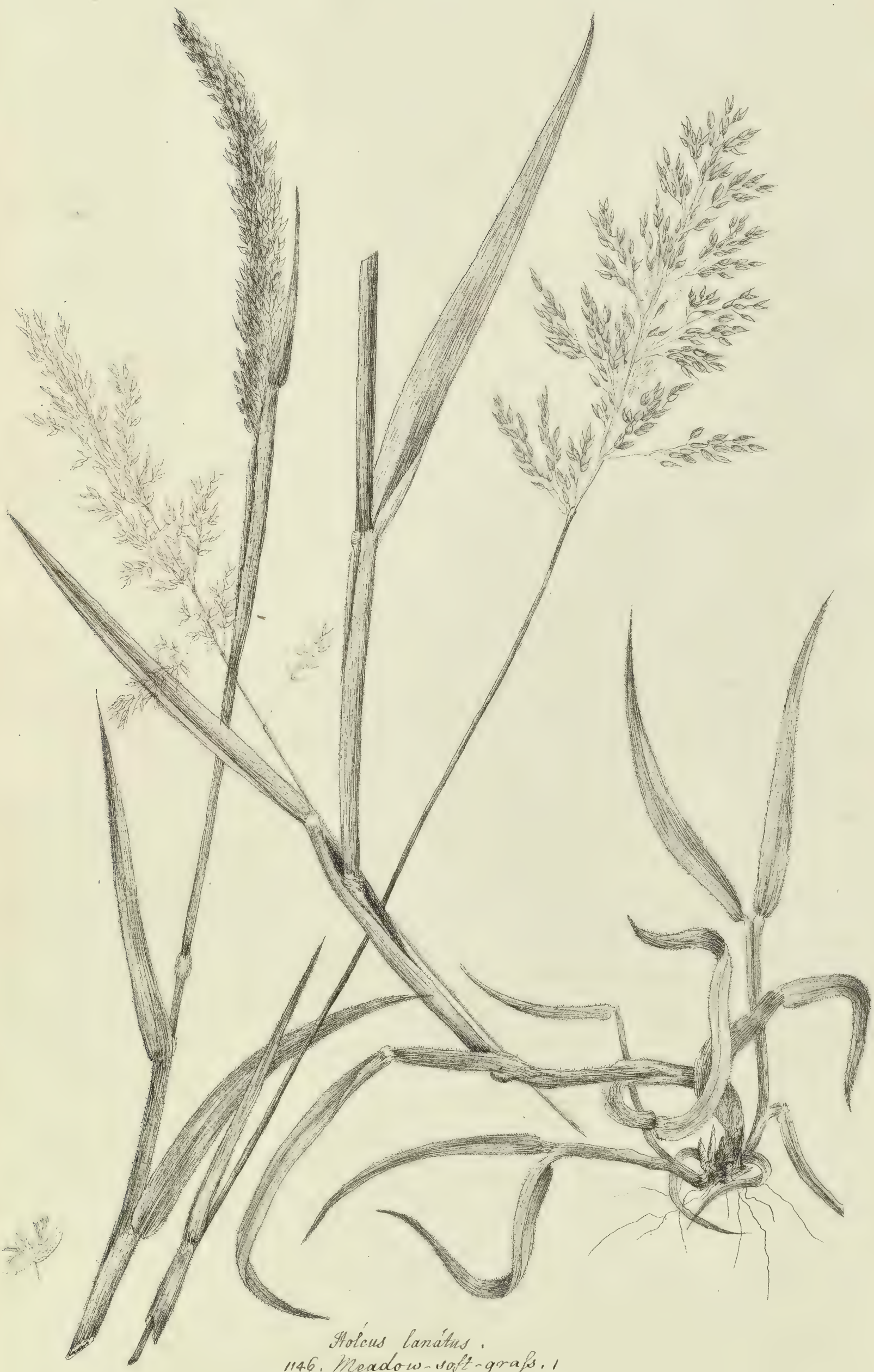
M.E. W.

C. vesicaria Hudson
C. ampullacea . Gooden:

C. hirta

1046. Hairy-carex. 35

Mt W.



Holcus lanátus.
1146. Meadow-soft-grass. 1

Wm. Wharton.

Holcus mollis. Creeping soft-grass.

Holcus mollis.
1146. Creeping-soft-grass. 2

Rottbollia incurvata
1150. Sea-hard-grass. 1

Mt. W.

Page

4D. Anthoxanthum
1 Odoratum. Spring grass. 1

65. Schoenus.

3
4 Compressus. compressed Bog-rush 4

Cyperus.

67. Scirpus
1 Palustris. Marsh club-rush 7

2-9 Pauciflorus. Chocolate-headed-club-rush 8

5 Lacustris. Bulk-rush. 8

8 Setaceus Least club-rush. 11

10 Maritimus. Round-rooted club-rush. or Bastard Cyperus-grass. 13

11 Sylvaticus. Wood club-rush. or Millet-Cyperus-grass. 14

68 Eriophorum
~~2 Polystachion~~ Angustifolium Common Cotton-grass. .. 15
~~1 Polystachion~~ ..... 16.

69 Nardus
1 Stricta Mat-grass. 17

74 Phalaris
1 Canariensis. manured Canary-grass.. 18
2 Arenaria sea Canary grass. 19
3 Arundinacea reed Canary-grass...

76 Panicum
1 Viride green Panic-grass. 21

5 Dactylon creeping Panic-grass.

77 Phleum
1 Pratense. meadow Cats-tail-grass... 26
β ——— . var: of meadow-cat's-tail-grass 27

78 Alopecurus
1 Pratensis Meadow-fox-tail-grass 29
2 agrestis. field-Fox-tail grass. ... 30

3 Geniculatus Flote-fox-tail-grass... 31
——— Bulbosus. Bulbous fox-tail-grass. 31

Stipa
Pennata Feather-grass .....
Millium

80 Agrostis

canina Brown-Bent Grass. 37

3 Polymorpha fine Bent-grass..... 38
α capillaris.

γ pumila dwarf Bent-grass..... 39
δ stolonifera creeping Bent grass. 39

ε palustris. marsh Bent-grass. 40
alba. var. 1 & 3. marsh Bent grass — ——— — 40

81 Aira
1 Cristata crested-Hair-grass 41
2 Cærulea purple Hair grass. 42
3 Aquatica Water Hair-grass 43
~~β distans~~. Poa distans 43
4 Cæspitosa Turfy Hair grass. ... 44
5 Flexuosa Heath hair-grass 45
or twisted hair grass.

8 Præcox Early hair grass. 48
9 Caryophyllea. Silver Hair-grass... 49

82 Melica
1 Uniflora. wood Melic grass. 50
Montana. mountain melic-grass.

84 Briza
1 Media. quaking-grass. 52
Minor. Small quaking-grass.

83 Poa. Decumbens ——— ——— ——— 75
1 Aquatica. water Meadow grass. or Reed-meadow-grass. 54
2 Pratensis. great-Meadow-grass 55

3 Trivialis common meadow-grass 56

4 Angustifolia narrow leaved Meadow grass.
β. nemoralis wood meadow-grass.

Fig:

8. Alopecurus (Foxtail) a a the valves of the empalement. b the single valve of the blossom with the awn c proceeding from its base d d the tips.

9 Phleum (Timothy grass) a a the husks of the empale=ment opened and magnified to shew the blossoms. b the floret in its natural state to shew the two points at the top of it. c c c the tips.

10 Phalaris (Canary) a a the keeled husks of the empalement. b b the husks of the blossom. c c the tips.

11 Milium (Millet) a a the husks of the empalement. b b the tips. c c pencil shaped summits.

12 Agrostis (Bent) a a the two pointed valves of the em=palement. b b the two valves of the blossom. c c c the tips.

13 Dactylis (Cocksfoot) a the outer and larger valve of the empalement. b the shorter valve. c the keel shaped valve of the blossom. e e e the tips. d the panicle pointing one way.

14 Stipa (Feather grass) a a the valves of the empale=ment. b the outer valve of the blossom, with the awn jointed at the base and twisted. c the inner valve of the blossom. d d the fea=thered awn. e e the hairy shafts and sum=

Fig:

25 Hordeum (Barley) a a a a a a the six valves of the empalement, two of which belong to each of the blossoms b b b. e e e the long awns of the outer valves of the blossoms. e e the naked spike-stalk as it appears after the florets are pulled off.

26 Elymus (Lymegrass) a a a a a a the valves of the empalement, two of which belong to each little spike b b b: e the empalement as it appears af=ter the little spikes are taken away.

27 Lolium (Darnel) a a a the empalements of one valve. b b b the little spikes consisting of several florets. c one of the florets opened to shew the two valves of the blossom.

28 Cynosurus (Dogstail) A the spike pointing all one way, composed of the florets B, in which a re=presents the fence with many clefts; b b the val=ves of the empalement containing several florets, and c c the florets.

29 Carex (Segg) a the tiled cat-kin. c the scaly empalement of the fertile floret. d the honey=-cup cloven at the top. b the seed bud, & g the shafts taken out of the honeycups: h h h the sum=mits. e the scaly empalement of the barren floret, with the three chives f f f.

30 Holcus (Soft grass) a a the barren florets on short fruit stalks. b the fertile floret, furnished with chives and pointals.

31 Rottbollia (Hardgrass) a a a a a joints of the spike-stalk. b o b c b c b c valves of the empalement placed outwards, the edges of one lapping over that of the other.

Fig:

8. Alopecurus (Foxtail) a a the valves of the empalement. b the single valve of the blosom, with the awn c proceeding from its base ddd the tips.

9 Phleum (Timothy grass) aa the husks of the empale=ment opened and magnified to shew the blosoms, b the floret in its natural state to shew the two points at the top of it. ccc the tips.

10 Phalaris (Canary) a a the keeled husks of the empalement. bb the husks of the blosom. cc the tips.

11 Milium (Millet) a a the husks of the empalement, bb the tips. cc pencil shaped summits.

12 Agrostis (Bent) a a the two pointed valves of the em=palement. bb the two valves of the blosom. ccc the tips.

13 Dactylis (Cocksfoot) a the outer and larger valve of the empalement. b the shorter valve. c the keel shaped valve of the blosom. eee the tips. d the panicle pointing one way.

14 Stipa (Feather grass) a a the valves of the empale=ment. b the outer valve of the blosom, with the awn jointed at the base and twisted. c the inner valve of the blosom. dd the fea=thered awn. ee the hairy shafts and sum=mits. fff the tips.

15 Aira (Hairgrass) a a the empalement. bb the blosoms, without the rudiment of a third betwixt them.

16 Melica (Melic) a a the empalement. bb the

Fig the fertile blosoms with c the rudiment of a third blosom betwixt them.

17 Briza (Quakegrass) a a the valves of the em=palement, bbbbb the blosoms, of which the outer valves only are visible. B one of the blosoms ta=ken out of the little spike: cc the outer heart=shaped valve of the blosom. dd the inner valve in=versely egg-shaped.

18 Poa (Meadow-grass) A an entire little spike. a a the two husks of the empalement, bbbbb the blosoms. B one of the florets seperated from the little spike. c the outer valve, d the inner valve of the blosom. eee the forked tips. fff the woolly summits.

19 Festuca (Fescue) a a the valves of the empalement. bbbbbb the blosoms of the little spike terminating in sharp points. c the inner valve of one of the blosoms.

20 Bromus (Broome grass) a a the empalement, bbb the blosoms, the outward valves only of which are visible with the awns growing from beneath the point.

21 Avena (Oat) a a the valves of the empalement. bbb the florets, the outer valves of which are furnished with a twisted jointed awn growing from the back. ddd the inner valves. cccccc the tips.

22 Arundo (Reed) a a the valves of the empalement. bbb the woolly blosoms.

23 Secale (Rye) a a the valves of the empalement. bbbb the blosoms; the inner valve of which is flat, but the outer concave and furnished with an awn. cc the spike-stalk with its little teeth.

24 Triticum (Wheat) a a the blunt valves of the empalement, embracing the three blosoms bbb, the outer valve only of which is seen, furnished with an awn. cc the spike stalk.

Explanation of the figures of the Grasses.

Fig:
1. Anthoxanthum (Vernal grass) a a husks of the empalement. b the awn of the inner valve of the blossom, twisted & jointed. c the straight awn of the outer valve of the blossom. d d the two tips. e e the two shafts.

2. Schœnus (Rush grass) The six petals, the three chives, & tips; the seed-bud, the shaft, and the summit cloven into three parts.

3. Cyperus (Galingale) a, the tiled spike pointing from two opposite lines, b the scale of the empalement; ccc, the tips. d the shaft, eee the summits.

4 Scirpus (Club grass). b the tiled spike, a the scale of the empalement. ccc the chives & tips. d the seed-bud, a little woolly.

5 Eriophorum (Cotton grass) a the woolly tiled spike. b the scale of the empalement including the hairy seed-bud, the chives, & the pointal.

6 Nardus (Matgrass) A. the spike pointing one way. ccc the blossoms. B one of the flowers a little magnified. a the lower & larger valve which embraces the smaller valve b. which is here drawn out of its natural situation, ccc the tips.

7 Panicum (Panic) bb, the two equal valves of the empalement. a the third smaller and outer valve, cc the valves of the blossoms. ddd the tips. ee the downy summits of the shafts.

[illegible]en out of the little spike: cc the outer heart-shaped valve of the blossom. dd the inner valve inversely egg-shaped.

18 Poa (Meadow-grass) A an entire little spike. aa the two husks of the empalement, bbbbb the blossoms. B one of the florets seperated from the little spike. c the outer valve, d the inner valve of the blossom. eee the forked tips. ff the woolly summits.

19 Festuca (Fescue) a a the valves of the empalement. bbbbbb the blossoms of the little spike terminating in sharp points. c the inner valve of one of the blossoms.

20 Bromus (Broome grass) a a the empalement, bbb the blossoms, the outward valves only of which are visible with the awns growing from beneath the point.

21 Avena (Oat) a a the valves of the empalement. bbb the florets, the outer valves of which are furnished with a twisted jointed awn growing from the back. ddd the inner valves. cccccc the tips.

22 Arundo (Reed) a a the valves of the empalement. bbb the woolly blossoms.

23 Secale (Rye) a a the valves of the empalement bbbb the blossoms; the inner valve of which is flat, but the outer concave and furnished with an awn. cc the spike-stalk with its little teeth.

24 Triticum (Wheat) a a the blunt valves of the empalement, embracing the three blossoms bbb, the outer valve only of which is seen, furnished with an awn. cc the spike stalk.

Fig:
2. Alopecurus (Foxtail) a a the values of the

5 Bulbosa. bulbose Meadow grass.
6 Poa, Rupestris. creeping Meadow grass. 58
7 annua annual Meadow grass. 59
8 Maritima sea meadow-grass. ... 60
β
9 Rigida. hard meadow grass. 61
10 Loliacea. Spiked meadow grass. ... 62

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2 glomeratus rough cocks-foot-grass 64

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1 Ovina. Sheeps fescue grass.
Glauca — — — 66
2 Durruscula. hard fescue grass. 66
Pratensis — — 66

3 Rubra. purple fescue grass.
4 Cambrica. welsh fescue grass.

5 Bromoides. barren fescue grass. — 71
6 Myurus. wall fescue grass. or capons-tail.
7 Fluitans float fescue-grass. 73
β. loliacea spiked fescue grass. 76

8 Elatior. tall fescue grass. 66
Glauca. sea fescue grass 66
9 Decumbens. decumbent fescue grass. 75
Sylvatica 76
10 Pinnata spiked Fescue grass.
β Sylvatica.

89 Polymorphus. Bromus.
1 Mollis field Broom-grass. or soft-broom grass. 77

β
γ Secalinus

5 Sterilis Barren broom grass. 82
6 Giganteus. tall broom grass. 83
7 Nemoralis. Bromus-asper wood broom grass. (or Bromus Ramosus of Lightfoot) 84

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1 Nuda. naked Oats or Pill-corn ... 86
2 Fatua. Bearded Oat-grass. 87
3 Pratensis. meadow Oat-grass. 88
4 Pubescens rough Oat grass. 89
5 Flavescens Yellow Oat-grass. 90
6 Elatior. tall Oat grass. 91
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Strigosa Scrgnnel Oat-grass — — — — — 86

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1 Phragmites common Reed-grass 92

3 Epigejos. small Reed grass.

(Calamagrostis-Arenaria of W. 3d Ed.)
4 Arenaria. Sea Reed grass. 92

95 Lolium
1 Perenne perennial Darnel grass. 96
Var. 2. Double spiked Darnel — —

2 Temulentum annual Darnel grass. 97
Arvense 97

96 Elymus.
1 Arenarius Sea Lyme-grass. 99

98 Hordium
1 Murinum Wall barley-grass. 100
2 Pratense. meadow barley-grass. 101

99 Triticum
1 Repens. β Variety common Wheat grass. or Couch G. 104

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1 Cristatus. crested Dog-tail-grass. 107

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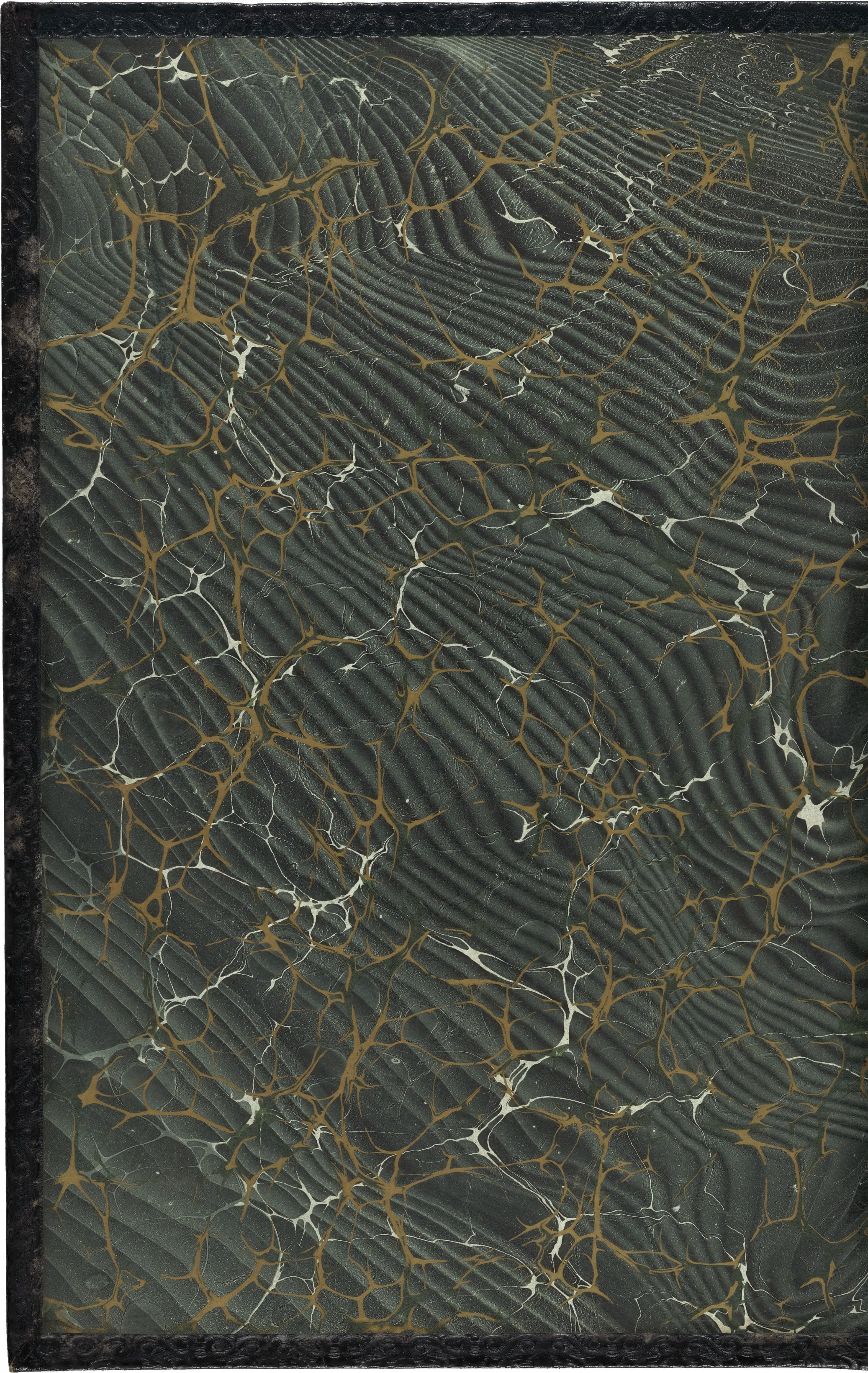
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